

016 mm (0.06")

SECTION

SYSTEM	SERIES	① GROUP FORMATION, AND MEMBER	LITHOLOGY	*THICKNESS, IN METERS	DESCRIPTION
QUATERNARY		Aluvium and colluvium		0-30?	Mostly unconsolidated gravel, sand, and silt; poorly sorted; aluvium locally cemented with calcareous tufa. ⑦ Tufa, light-brown, calcareous, occurs as molds of plant stems. Gravel, subrounded to subangular; composed of vein quartz, chert, laminated limestone, and fine-grained limestone cobbles and pebbles in a sandy matrix. South of Cheyenne River, sand is more abundant than gravel. Conglomerate, reddish-brown, subangular to subrounded, poorly sorted, crossbedded; cemented with calcium carbonate; pebbles dominantly laminated limestone. Gravel, light-brown, angular; in sand and silt matrix. Gravel and sand, light-gray; gravel composed of rounded boulders and cobbles of metaquartzite, vein quartz, chert, agate, and pegmatite; sand is medium grained to very coarse grained, quartzose, micaceous, and weakly cemented with calcium carbonate. Shale, light-yellow, chalky. Shale, dark-gray, clayey, contains abundant septarian limestone concretions. Shale, dark-gray, contains a few siltstone and sandstone beds; commonly contains septarian limestone concretions in upper part. <i>Rhynchotrema</i> , <i>Hebertella</i> , <i>Zygospira</i> , strophomenid, brachio-pod, and trilobite fragments common (McFarlan, 1943, p. 17). ⑧
		Tufa deposits		0-15	
		Fluvial terrace gravel		0-50	
		Fluvial terrace conglomerate		0-70	
		Colluvial terrace gravel		0-20	
TERTIARY(?)	Oligocene(?)	White River(?) Formation	0-30?		
②	③	Niobrara Formation ⑤	100+	⑥	
		Goose Egg Formation	Sage Breaks Member ⑤	60	205
			Turner Sandy Member	145	
PERMIAN	Upper				
PENNSYLVANIAN		④ Ash Creek Group	Opeche Formation	150	160+
			Minnelusa Formation		

NO.	ITEMS (All univers)	SIZE
①	Headings	8 pt.
②	System names	9 pt.
③	Series names	9 pt.
④	Group names	8 pt.
⑤	Formation, member names	8 pt.
⑥	Thickness	7 pt.
⑦	Description (Text)	7 pt.
⑧	Fossil names	7 pt.
⑨	Notes	7 pt.

*Thickness approximate where no range is given ⑨

Note: Point size may be increased or decreased as the need arises